21. J. F. C.

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1078 to 1121

Copy A 1078 to Stations

1078 Astrophylon agassizii, abdt, Aleyonim Carneum, rare, Strongylocentrolus Drobach. (1) Aslerias bulgaris Clendrasus Cruspalus deplastinias complà. Rossia Aratlii Cyprina Islandica Hurur decementalus All bearings magnetic. Buccenum undalum Eupagurus Randalux opheopholis aculeata myses, Solaslevendeca llarge" Sepho Shempsone,

Instrument used, Orcarel
Current number of observation, / O 78
Date, aug. 2, 1882
Locality, off Cape Cod
Bearings, Malikett Beacons
N. W. 14 N, Dist. 10 miles
Time of day, 7, 30 A; offide,
State of sky, 6, C.
Temperature of air, 72, Dig. Serv. Them.
" surface of water, 63 " n.3, 47996
" surface of water, 63 " 1.3, 47996 " at depth of 5 fathoms, 56 \$10, 40
" of bottom, 37, 23.47995.
Depth, in fathoms, (53)-55
Nature of bottom, green mud, fine hand Direction of surface current, W, S, W, force 3. Force of surface current, S, by W, 1/2 m.
Direction of surface current, W. J. W. force 3.
Force of surface current, S. by W. 1/2 m.
Direction of bottom current,
Force of bottom current,
Name of vessel, Fish Hawk,
To what service attached, M. S. F. C.
Name and rank of commanding officer, Leich ? L
Tanner. U. S. N.
Name and position of observer,
J. 13. 1 Dlish
mis ust

1079, REMARKS. Astrofolylow agassizi abde Liphs decementatus 5. Ceprina Islandica Macoma sabulosa Terebralulena Lacadaon arctica glycemeris beliqua Anomia Occulenta Astarle lens walno Urticina Callosa

T O
Instrument used, Trawl,
Current number of observation, / O 7 9
Date, aug. 2, 82.
Locality, Off Cape Cod.
Bearings, Kariset Beacon
N. W. by W. 1/2 W, 8/4 m
Time of day, 8 40 Aoftide,
State of sky, L. C.
Temperature of air, 69.
" surface of water, 6 3, 5
" at depth of 5 fathoms, 56.5
" of bottom, 37,
Depth, in fathoms, 5 9 - 6/1/2
Nature of bottom, fine band
Direction of surface current, Force of surface current, E. S. E. / mile
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1080, REMARKS. Astrophytin Agassigii, benjaboti Sipho decementatus. Azas, Eupagurus. Asterias orulgaris, benjagi, Peclen Islandieus. Lawieava Norvegica
" arclica Cyprina Islandica Glycemeris Cardrim Islandicum. Tiphe Stimpsoni Macoma Labulora Quelinum undalum Aparrhais occidentalio Anomia aculcata Solasler endeca articina Callora Bolocera Trudiae. Clendiseus crispalis Chalina

7
Instrument used, January
Current number of observation, 1080.
Date, Aug 2. 1882
Locality, Off Cape Cool
Bearings, Nausch Beacons
1. N. by W. 1/2 W. 61/2 m
Time of day, 9, 40 Cottides,
State of sky, L. C.
Temperature of air, 69.
" surface of water, 61,5
" at depth of 5 fathoms, 56
" of bottom, 37,
Depth, in fathoms, 53-55
Nature of bottom, fine Land
Direction of surface current,
Force of surface current, N. N. N. I mule
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

/ 0 &/.
REMARKS.

Cardrim Leclandreum

Plyseimeris peliqua

Sipho Leclandreum

Spesiula o valis

Modrolaria discors.

Peccin delandreud

Jasceava archeia

Buccinim undalum.

Macoma rabulosa

Sipho decemeortalum

Instrument used, Trawl
Current number of observation, / 0 81,
Date, aug. 2, 1882
Locality, Off Cape Cod
Bearings, Hauset Beacons
11. by, 3, 3/2 miles
Time of day, 10,50; fride, 7
State of sky, & &
Temperature of air, 69
" surface of water, 5 9,
" at depth of / O fathoms, 40
" of bottom, 3 9
Depth, in fathoms, 32 to 331/2
Nature of bottom, Coarse fravel Mebble
Direction of surface current,
Force of surface current, N. M. by N. Im
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1089, REMARKS.

Ilgermen's seligua Osperula avalis Thodrola madiola,

Instrument used, Jacob
Current number of observation, 1082
Date, aug. 2. 1882
Locality,
Bearings, Chile Lod Night, A
3/4 N, 11/12 miles
Time of day, / /, 4 5 Goffide,
State of sky, J. C.
Temperature of air, 70
" surface of water, 5 9
" at depth of fathoms,
" of bottom, " O.
Depth, in fathous.
Nature of bottom, Company frame
Direction of surface current.
Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

1083, REMARKS. Apporhais o carbe tales
The comerces deligna
Sepho Atempsoni
Peler Islandicus Le pela coeca ? Enpagurus Delaster endeca.

Instrument used,
Current number of observation, (083,
Date, auf. 2, 1882
Locality, O. C. C. Le Col
Bearings. Caro Cool Scipli-
Mr. by A. 15 miles
Time of day, / 2. 45; of tide,
State of sky,
Temperature of air,
·· surface of water,
" at depth of / O fathons, 42
" of bottom, 38,
Depth, in fathoms, 80 - 83 1/2
Nature of bottom,
Direction of surface current, Form of surface current, W. J. W. 12 mm
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1084 REMARKS. Penlacta fros dosa. Iven large. Boloccia Tuediac. Pandalus lepto erro? c44 as. Reclan Islandicus, Aprila ovalia Esprina Islandicas Lipho Itimpsoni Pealen lenuisorlatus Empagnius Balanus porcalis? dolaster endeca. Asterias bulgario. Septasteria phygiana Compla

gramme 1
Instrument used, dage
Current number of observation. D &
Date, 1862
Locality, Och Cance Com
Bearings.
M. N. N. 78 m. , 8 miles
Time of day, 2 , 2 0 Bolitide,
State of sky, -6. C.
Temperature of air,
" surface of water, 62.5
" at depth of / 4 fathoms, 43
" of bottom, 38,
Depth, in fathoms, 36-37
Nature of bottom, Coalle 2000
Direction of surface current,
Process of surface cultures. IV 3. IV James I
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1085 REMARKS. Askraphylan Agassizi veyable. Pantalus. Strong, locantrotes Drobach. Cupagnus Aslerias oulgario deplastinas Compta. Cribrella Danquinolenta Hipparleria phygiana Colastei endeca Cartuin delantica artuin declardeun Laurence archia Leph Stimpsoni

Sejoh Stempraoni Elgerneris siliqua Ocelen lennicostalus Astaile lens,

Spesiela ovalio.

Opportant occidentation

Trawl
Instrument used,
Current number of observation, / O & 5
Date, aug. 3, 1882
Locality, Cape Cook
Brarings, Rose Point Sught
5, 33° E. 2 miles.
Time of day, 6, 15 Ocarride,
State of sky, &, C,
Temperature of air, 6 7,
" surface of water, .64,
at depth of 5 fathoms, 61, 10 free, 43,
" of bottom, 3 9
Depth, in fathoms, 33-34/2
Nature of bottom, fine Land, green and
Direction of surface current,
Parent surface convent. S. by & I make
Direction of bottom current,
Forma of hottom aumant

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

1086, Astrophylor Agassizie Quantitis Candalus lephoserios. Ofshiofoholis aculeata Polaslei endeca Crédicella Ranquinolenta Alcyonium Carneum. Pentuela prindora, / Cargo, depho de ceracistalus madiolas madiola Cardin declandicum Aprila ovalio Caprina Reclandica Peelen I calandrein Margarità obserra Osenelwilla Moachina relution habitaidea

6.6
Instrument used,
Current number of observation, / O 8 6,
Date, aug. 3, 1882
Locality, Off Cape Com
Bearings. Rose Pt. Light
S. 20° W. 23/4 miles
Time of day, Y, _aw,; of tide,
State of sky, & . c.,
Temperature of air, 74,
" surface of water, 64.
" at depth of 1 5 fathoms, 44
" of bottom, 39112
Depth, in fathoms, 33-34,
Nature of bottom, fine Dine
Direction of surface current,
Perconformation, S. & & mule
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1087. REMARKS. Acppasteria Johngana Pandalus Bologua Thedias. multicornis My draids. 12ry o zera. Cribrella Dan undenta Rossia Sipho decementations Caronin Declandein opisula avalió. Oprina d'celandica Oselen tenuisostatus depeta casea. Varicara aretica

91
Instrument used, Itaul
Current number of observation. / 0 8 7
Date, auf. 3, 1882
Locality.
Bearings, Carle Cal dept-
S. S. Ir, y miles
Time of day, 8, 35 (of tiple,)
State of sky, & . C ,
Temperature of air, 84,
" surface of water, 62,5
at depth of 5 fathoms, 46, 10 fm. 41.
of bottom, 39,
Depth, in fathoms, 42-44
Nature of bottom,
Direction of surface current,
Proposition 1. 8 1 12 mm
Direction of bottom current.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

1088. REMARKS. Apporhais occidentale Dejoho decementation. Terebratulina deplin. Pardun Seclandicum Reclen tennicostatus Ostarle lens, Osprina d'Celandia Dasciava martigien anomia aculenta Lunatia Natica Clausa Macoma dabulosa ma-diolaria discoro. 3 Caphalopods, Urlicina nodosa Bolosera Vicacia. Pandalus barealis. Hipparlina Colaster, Porania, Cribrella funguinolenta Openger. ophispholis abulenta Hippolyte. Hydroids, Byzon,

Instrument used,
Current number of abservation,
Date. Ching 3 / FFE
Locality, Office
Bearings, Cal Cal Kight
S. 17. 3/4 1. 9/2 miles
Time of day, 9,50 Coffide.
State of sky, 6
Temperature of air, 8 2,5
" surface of water, 62
" at depth of 5 fathoms, 59,5
" of bottom, 3 8
Depth, in fathoms, 8 6 - 9 0
Nature of bottom, Coarle sund
Direction of surface current, Percent surface current, N. 11/2 miles
Direction of bottom current,
Force of bottom current,
Name of vessel,
Γο what service attached,
Name and rank of commanding officer,

REMARKS.

Instrument used, UTCLLUC
Current number of observation, / 6 8 9
Date, aug 3, 1882
Locality, Off Cafe Cod
S. W. 3/4 W. 14 miles
Time of day, 10; of fide, 10
State of sky, & C,
Temperature of air, 78. " surface of water, 63.
·· at depth of fathoms,
" of bottom, 3 8, 5
Depth, in fathoms, 106-110,
Nature of bottom, frey much
Force of surface current, Force of surface current, N. W. by W. 344 m.
Direction of bottom current,
Force of bottom current,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

Name of vessel,

Wolerhaul

1090.
REMARKS.

Apporhais o ceidentalis
Lacicara Aorregia
Aslarte lens.
Laldra Thraciformi,
Reclei Icelandia
Mya truncata
Lipho prygmaca
Lentaluin Obriolatum
Occidentalis
Holdia Rapatilla
Macra archia
Cardriin pinnulaluin
Leda tenuisuleuta
Macra of

T 1
Instrument used,
Current number of observation, / O 9 0
Date, and 3. 1882
Locality, Off, Cape Code
Bearings,
5. n. 3/4 n. 1344 miles
Time of day, 11, 5 to ; of tide
State of sky, L, E,
Temperature of air, 8 1, 5
" surface of water, 6 2_
" at depth of 5 fathoms, 56, 10 has 52
" of bottom, 38,5
Depth, in fathoms, 1 6 6 = 1 1 7
Nature of bottom,
Direction of surface current,
Promote Marie 1 S. TV Landille
Direction of bottom current,
Farm of hattan aureant

Name of vessel,

To what service attached,

Name and rank of commanding officer,

1091,

REMARKS.

Ar charles Americano, by abl.

Instrument used, Traul
Current number of observation, / O 9 /
Date, aug. 11, 1882
Locality, Of 1 marthy Viver our
Bearings, At Ho 33 N
Ling. 690 441 TV.
Time of day, 5/36; (fide)
State of sky, & C
Temperature of air,
Temperature of air, + + + + + + + + + + + + + + + + + + +
" at depth of [O fathoms, 62,
" of bottom, 4 6
Depth, in fathoms, 62 = 65 / Comments
Nature of bottom, frey sand The lan the Us
Direction of surface current,
Porce of suchace current of N. by W. 1/2 mule
Direction of bottom current,
Force of bottom current,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

Name of vessel,

1092, REMARKS.

Archaeler Florae. Pennalula aluleata Anledon. Eurpaguius, Randalus. Voim lukis. Jehrgaeler pragiles

OF.
Instrument used, France
Current number of observation, / O 0 2-
Date. aug. 11. 1852
Locality, Off Mearle Ros Diney and
Bearings, 227 3 9
Long, 69042' W.
Time of day, 6,5 4 Got tide
State of sky, &. C.
Temperature of air, 74
" surface of water,
" at depth of fathoms,
of bottom, 41.
Depth, in fathoms, $194 = 202$
Nature of bottom, Qrany lander
Direction of surface current,
Force of surface current, of W. L. 3/4 1:-
Direction of bottom current

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

REMARKS.

Instrument used, Tracul
Current number of observation, / 0 9 3
Date, Que, 11, 1882
Locality, Off Marchail Dinesand
B-arings, July 3 9 5 6'0-0" N.
Jong 690 45' - W
Time of day, 8, 3 5 a detide;
State of sky, b, c.
Temperature of sir, 8 2-
" surface of water, 75,
at depth of fathoms,
" of bottom, 40,
Depth, in fathoms, 336 = 349
Nature of bottom Land Police merel
Direction of surface current,
Francisco W. N. 17 / Wills
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

REMARKS.

Instrument used, ACE AVER / TOTAL
Current number of observation, 1094.
Date, Oug. 11, 1882
Locality.
Bearings, XA, 390 57
Lone, 690491
Time of day, / O , / O ; offide;
State of sky, L
Temperature of air, 8 4
surface of water,
at depth of fathoms,
" of bottom, 40
Depth, in fathoms,
Nature of bottom, See grand
Direction of surface current,
ramed with the W. W. by N. Imile
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

Instrument used. Deep Lea Trawl
Current number of observation, / O 9 4
Date, aug. 11, 1882
Bearings 3905'98" W
Jong 69047' 60 74
Time of day, / / , 5 5 /of-tide,
State of sky, 6- C.
Temperature of air, 82-
" surface of water,
at depth of fathoms,
" of bottom, 40
Depth, in fathoms, 3 2-/,
Nature of bottom, for free will
Direction of surface current,
Francisco V. N. 72 W. 3/2m
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

Instrument used, Trawl.
Current number of observation, / O 9 6
Date, Ours, 11, 18
Locality, Of Marther Vinegeral
Bearines, 064. 39 53' N.
Nong 69047 W
Time of day, / , 3 9 Profite,
State of sky, b _ C
Temperature of air, 78
" surface of water,
·· at depth of fathoms,
" of bottom, 👙 🗸
Depth, in fathoms, 3 / 7
Depth, in fathoms, 3/7, Nature of bottom, green recusi
Direction of surface current,
Barre of sorther chronit, W. W. W. 12 mile
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Tracol
Current number of observation, / 0 9 7
Date, Que, 11 188
Locality, Off Marthai brugger
Bearings, 390 541 N.
King, 690 44 W
Time of day. 3 , or tide.
State of sky,
Temperature of air, 16:
" surface of water, 755
" at depth of fathoms,
of bottom,
Depth, in fathoms, 158
Nature of bottom, fine and and
Direction of surface current,
Force of surface current, N. 12 W. 12 mule
Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

-Instrument used, Trans
Current-number of observation, / 0 9 67
Date, aug. 11, 18 82
Locality, Off Marchas benegate
Bearings, Kar. 39053 V.
Long 690 43.77
Time of day, 4, 35 P. Worlde,
State of sky, 6. C.
Temperature of air, 78.
" surface of water,
at depth of fathoms,
" of bottom, 43,5
Depth, in fathoms, 156.
Nature of bottom, fine Land
Direction of surface current,
French de by E. 3/4 mil
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Traw
Current number of observation, / 0 9 9
Date. aug. 1844 1882
Locality, binegard Ad
Bearings, Nobelea Nh Light
W. S. W. 14 W. 1 578 miles.
Time of day, 11, 0 6; Thid
State of sky,
Temperature of air, 76,
" surface of water, 2
at depth of fathoms,
of hottom, 7 / 5
Depth, in fathoms,
Nature of bottom, Same frame.
Direction of surface current,
Form of sufficient Them. N. E Gy N. 1/2 m
Direction of hottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used,
Current number of observation, // 00
Date, Qua. 18. 1882
Locality, bring and to
Bearings, Jobska N/ Vight
W. S. W. 74 W. 144 miles
Time of day, //, + 7 C; or ode,
State of sky, & C.
Temperature of air, 77.
surface of water, 72
·· at depth of fathons,
" of bottom, 7/2 5
Depth, in fathoms,
Nature of bottom, Johnson - Travel - July
Direction of surface current,
Por Partir W. E. by N. 1/2 m.
Direction of bottom current,
D E 1 44

Name and position of observer,

To what service attached,

Name and rank of commanding officer,

Name of vessel,

Instrument used, Trans
Current number of observation, // 0 /
Date, aug. 18, 1882
Locality, Vineyard
Bearings, Nobel at Fight
N. by S. 1/2 miles.
Time of day, 12.15 Stille
State of sky, 6.C
Temperature of air, 75
" surface of water, 79_
" at depth of fathous,
" of bottom,
Depth, in fathoms, 5
Nature of bottom, Ahalla
Direction of surface current,
Force of surface current, N. E. Iw.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

97-0
Instrument used, Traw
Current number of observation, // 62-
Date, aug. 18, 1882
Locality, benevaid to
Bearings, East Chap Sight
N. M. 3/4 W. 2/2miles
Time of day, /, / of tide,
State of sky,
Temperature of air, 43
" surface of water,
" at depth of fathoms,
of bottom, 69.
Depth, in fathoms,
Nature of bottom, Coarsesand
Direction of surface current,
Form of surface current, E. b. y S. /2 m
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

9 0
Instrument used, Traco-C
Current number of observation, // 03.
Date, aug. 18. 1882
Locality, Viney and Id
Hearings. East Chop. Vight.
N. by W. 23/4m
Time of day, 1, 42 Portiles
State of sky, O 1-C
Temperature of air, 70
surface of water, Zo,
· at depth of fathoms,
" of bottom, 69.
Depth, in fathoms,
Nature of bottom, Coarie Carl
Direction of surface current,
Forest Street Commen. E. G. S. 14 m
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Treacol
Current number of observation, / / O 4,
Date, aug, 18, 1882
Locality, bineyand Id
Bearings, Early Company
m. Nor 12 m. 4 mila
Time of day, 2 1 2 for tide
State of sky,
Temperature of air,
" surface of water,
at depth of fathoms,
" of bottom,
Depth, in fathoms, 8 1/2
Nature of bottom, Alells
Direction of surface current, /2 mil
Force of surface current.
Direction of bottom current,
Force of bottom current,
Name of vessel,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

Instrument used, drawl
Current number of observation, // 0 5
Date, aug, 18, 1882
Locality, Fineral & &
Bearings, Cape Roge Light
S. by m. 4 miles
Time of day, 3 fall, of tide,
State of sky,
Temperature of air,
surface of water, 7
at depth of fathoms,
" of bottom, J-1.
Depth, in fathoms, 1. 6
Nature of bottom, Coarsedand
Direction of surface current,
Direction of bottom current,
Force of bottom current

Force of bottom current,

Name of vessel,

To what service attached.

Name and rank of commanding officer,

1106

REMARKS.

1.0127

72

Instrument used, Trave	
Current number of observation, // //	
Date, Aug 18 1882	
Locality, Jinemarch Soc	n. d
Bearings,	.21
Ixu Ven Calle	the by
Time of day, 9.95 : of ride,	ate a down
State of sky,	07
Temperature of air, 80	
" surface of water, 179 /	
" at depth of fathoms,	
" of bottom, 72	
Depth, in fathoms,	
Nature of bottom, Rand & shell	
	- 1 ce 3
Fire of surino mand, N.E. XN	1/2 mile.
Direction of bottom current,	7
Force of bottom current,	
Name of vessel,	
To what service attached,	
Yama and made of assessmenting the	

1107 REMARKS. Surface 1.0044 67 JAH. 68 13 france Tourse over 6.12 down 125 Leaving in 6.46 up 6.54 220 frug. met Water Haul

Instrument used. Travel (Came up inste)
Current number of observation, // 0 17
Date, Aug 22, 1882
Locality. Of Mortas I was and
Bearings, Lat 40°-02' N
dong. 71 - 35' W
Time of day,
State of sky,
Temperature of air, 69 //2
" surface of water, 7/
" at depth of 5 fathous, 7/1/2 16 /mg 66
" of bottom, 48
Depth, in fathoms, //6
Nature of bottom, Choos const
Direction of surface The Same Same Same Same Same Same Same Sam
Formal N. W. 12
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1108 Specific Sparities Suface 1.0049 1 Gna. Travel ora 608 down 7.07 Leaving in 7.97 wh 750

Instrument used, In une
Current number of observation, // 0 8
Date, Aug. 22 18 8 2
Locality, If Morthas finesand
Bearings, Lat, 40 "- 02' NO
Long 70° . 37 30" W
Time of day, 6,5%; of tide,
State of sky,
Temperature of air, 69//2
" surface of water, 7/
" at depth of fathoms,
" of bottom, 4/8
Depth, in fathoms, POI
Nature of Internet garage mond of fine cand
Direction of sustaining MIN. The 2
East Market annual, N. 11 3/4
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1109 REMARKS. Surface 1.0243 10 fms leaving in 8:40 up 8,50

1110 SEMARKS. Surface 1,023.5 5 frus 85 12 91 Fraint over 8-25 down 9.35 Learning in 10.05 wh 11.18

Instrument used, Inavol
Current number of observation, ////
Date. Aug. 22 1802
Locality, Of Morthas / weyerd
Bearings, 2 11. 200 02
Song. 710-33' W
Time of day, ; of tide.
State of sky,
Temperature of air, 73
" surface of water, 72
at depth of fathoms,
of bottom, 47
Depth, in fathoms, / /
Nature of bottom, fremerous of the over of
Direction of surfess current, A Londe 2
Force of surface buttons, 1 x W 1/2 W
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

1111 Surface 1.0289 10 frue 40 70 10 frue 40 72 Frank open 10.50 de ma 16.57 Leaving in 11.30 apr 11.40 9 77 for out.

Instrument used. Deep the Source
Current number of observation, ////
Date, Aug. 22 18 + 21
Locality, Off Marthas Jung and
Bearings, Lat 2/8 - 6/39"
Les 71 . 95 W
Time of day, 1843; of tide,
State of sky,
Temperature of air, 77
" surface of water. 72 1012 = 48402
" at depth of 3 fathoms, 7)
of bottom, 47
Depth, in fathoms, 222
Nature of bottom, Line 2 and
Direction of surface durant, N.E. Jonce 2
Formal N. N. E 1/2 E. 1'
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

11/12 Surface 1.02 210 of free 41 89 Travel ron 1235 down 1.15 Leaving in 181 up 1.45

Instrument used. Deep Son Travel
Current number of observation, ///
Date, Ang 22 /882
Locality, Off Marthas Quingerd
Bearings. Latertule 30 1 36 1
Long, 70° - 95 W
Time of day, 19, 43; of tide,
State of sky, MC,
Temperature of air, 7-9
" surface of water, 72
" at depth of 5 fathoms, 72 11702 63
" of bottom. 43
Depth, in fathoms, 243
Nature of bottom, green med voand
Direction of surface courses. NWX/V/
Porce of Surface Corners N. W. X W. X
Dissense of bottom current at 20 Lms 49
Force of bottom current,
Name of vessel,
To what service attached.

Name and position of observer,

Name and rank of commanding officer,

11113 Surface 1.0240 88 1 Ams 40 70 I navel over 1.54 down 2.08 41 70 Aconing in 2.25 of 2.40

Instrument used. Dely Sea Travel
Current number of observation, ///8
Date. Aug. 22 1882
Locality, I Market & Viceyard
Bearings,
Long. 70"-30" W
Time of day, /, 43 ; of tide,
State of sky,
Temperature of air, 75
" surface of water, 72
" at depth of 3 tathons, 7/1/2 10/200 69
" of bottom,
Depth, in fathoms, / P 2
Nature of bottom, green much
Direction of surface current, A.E. Louise 9
For a factor 1
Direction of Indian current,
Force of bottom current, 1. 90 in 46
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

///#
REMARKS.

Frankover 2.46 down 2.55 Donning in 3.16 up 8 28

·
Instrument used. Such Jea France
Current number of observation, ///44
Date, Aug. 22 1882
Locality, Of Marthas Viverent
Bearings, Latitude 98-35 9
5 mg 70 - 38' W
Time of day. 2 4 6 ; of tide.
State of sky,
Temperature of air, 74
" surface of water, 72
" at depth of 3 fathoms, 7//2 10/m2 & 3
" of bottom, 43
Depth, in fathoms,
Nature of bottom, green much
Direction of suffice intrem. N.E. force Q
Force of surface current, A X M /
Direction of Institute questions, the at 150 for 199
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

1 tothom Thermometer X 149 9 4 449 9

1115 REMARKS. Dodge over 8.35 down 3.44 heaving in 4.11 wh 4.20 275 fma out We fish.

Instrument used, Anna Dr. Age
Current number of observation, ///3
Date, 122 1880
Locality, Oby Marting Duragans
Bearings.
Lorg. 78: -41' 12
Time of day, 5,28 P. Mof tide,
State of sky,
Temperature of air, 73
" surface of water, 72 //2
" at depth of 5 fathoms, 72 18 from 71
" of bottom, 43
Depth, in fathoms, 146
Nature of bottom, green mud of Dand
1.5.100 - 4
Direction of surface current. Land 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Direction of bottom current,
Force of bottom current,
Name of vessel.

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

Prawl over 4.26 down 4.88

Louis gric 4.33. up 381

gri fins. out

At 5.00. 1 2 to ording in

143 ms.

Instrument used,
Current number of observation, ///6
Date, Aug. 22 1882
Locality, Boy Mary these I included
Bearings, 201. 29° 3-9' NO
Time of day, 4,20; of tide,
Time of day, 4,20; of tide,
State of sky, & . Č
Temperature of air, 77
" surface of water, 72:
" at depth of 3- fathoms, 72 15 fmis 68
" of bottom, 4/6
Depth, in fathoms, /// :
Nature of bottom. And sand s green and
Direction of suckle direction S. E. Line 2
Version of substitutions S.E. for ce 2
Direction of bottom current,
Force of hotton guerant

Name of vessel.

To what service attached,

Name and rank of commanding officer,

///7 REMARKS.

Travel over 5.37 de von 5.41 Leaving in 6.68 up 6.12

Instrument used.

Current number of observation, ///
Date, Avg. 22 1882
Locality, Of Morthas June ary
Bearings, Lat. 40 - 02 /V
Long 78' - 45' 12
Time of day, 3 .90 ; of tide.
State of sky,
Temperature of air, 78
" surface of water, 72
" at depth of 5 fathoms, 72 11 from 82
" of bottom, 45
Depth, in fathoms, 89
Nature of Instone. June 2000
Direction of surface contents, N To a & 3
Francis Nov & 1'
Direction of bottom current,
Force of bottom current,
Name of vessel

Name and position of observer,

Name and rank of commanding officer,

To what service attached.

/// & REMARKS.

Travel over 6.25 down 6.30 heaving in 6.35 wh 6.40

Instrument used, Travel
Current number of observation, ///8
Date, Ang 22 1262
Locality, Of Martha's Winey.
Bearings, Latto 03' N
Long. 70° - 43' W
Time of day, 620 Phot tide.
State of sky,
Temperature of air, 74
" surface of water, 72
at depth of fathoms,
" of bottom, 49
Depth, in fathoms, 76
Nature of bottom, free 22nd
Direction of surious Arrent. N fra & Q
Moderate N. N. W 1/4"
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

REMARKS.

Travel over 6.37 drum 6.41 heaving in 722 up 722 215 fm2. out. A+ 5.22 get 2 and in 56 fme

Large Neptunea decementata.

Archaster Americanus

Instrument used, Trawl
Current number of observation, ///9
Date, Ang. 26 1882
Locality, Of Nantucket
Bearings. Lat 40 08 N
Strg. 68 -45 1/2
Time of day, 1 & 2 1) offide,
State of sky, & C
Temperature of air, 6 8
" surface of water, 65
at depth of 5 fathonis, 15
" of bottom, 4 8
Depth, in fathoms, 97
Nature of bottom, 2 and of broken stills
Direction of senter consult. As N.S. Janes D.
Direction of surface formus, N.E. 1/2 N 3/4
Direction of bottom current,
Force of bottom current,
ame of vessel,

To what service attached,

Name and rank of commanding officer,

1120 REMARKS.

Leaving in 8,90 wh 8.45

Lotof Astrophyton Vamarekii not before taken by us. Dolium Bairdie, frag. Neptunca de com costela Cha Sherryheari Buccinus undalum dipho perbersions Additioned paradorea Doris Complanala Hyalinoccia artifes Beploterader mullipes Buisopsus lyrigera Boloccia Tuediac Porania offiniloza Archestic ofgresizio

Instrument used, frank
Current number of observation, 1/20
Date, Aug. 26 1882
Locality, Off Nantucket
Bearings, Lat 400-05' N
Long 680 - 481 W
Time of day, 7 47 A Nof tide,
State of sky, &C
Temperature of air, 69
" surface of water, 6 5
" at depth of 5 fathoms, 63, Qt 10 56
" of bottom, 431/2
Depth, in fathoms, 194
Nature of bottom, fine Rand 1 stones Direction of surface current, Wind NAE, force
Force of surface current, N.W. 11/0
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,

Name and position of observer,

Name and rank of commanding officer,

1121 REMARKS. I nave over 9.18 down 9.25 Leaving in 9.48 wh 10.05 Large lot Ophercantha millespena Bolocera Triedeae lot, Ayalinoccia arlifera a Peclin vitreus frag. Abelecina Callora Varamuricea borealis Anledum deulalum. Porania frandis. I very large, Caken home alive Solastir Earllie, large Lophaster furcifer of Chis and last not taken in this region before

Instrument used, I rawl
Current number of observation, //2/
Date, Ang 26 1882
Locality, Off Nantucket
Bearings, Lat. 400-04 N
Song. 680-49' W
Time of day, 9.05 H/m of tide,
State of sky,
Temperature of air, 65
" surface of water,
" at depth of 3 fathons, 64 10 fms 36
" of bottom, 4/1//2
Depth, in fathoms, 294
Nature of bottom, fine sand y fissil stone. Direction of surface current, NNE force 4 Force of surface current, N-NN /
Direction of surface current, NNE force 4
Force of surface current, W-NW '
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

REMARKS.